

Patent claims

1. A thermoplastic molding composition comprising
 - 5 A) from 10 to 99.99% by weight of at least one thermoplastic polyester
 - B) from 0.01 to 50% by weight of a highly branched or hyperbranched poly-ester of A_xB_y type where x is at least 1.1 and y is at least 2.1
 - 10 C) from 0 to 60% by weight of other additives,

where the total of the percentages by weight of components A) to C) is 100%.

 2. The thermoplastic molding composition according to claim 1, in which component B) has a number-average molar mass M_n of from 300 to 30 000 g/mol.
 - 15 3. The thermoplastic molding composition according to claim 1 or 2, in which component B) has a glass transition temperature T_g of from -50°C to 140°C.
 - 20 4. The thermoplastic molding composition according to claims 1 to 3, in which component B) has an OH number (to DIN 53240) of from 0 to 600 mg KOH/g of polyester.
 - 25 5. The thermoplastic molding composition according to claims 1 to 4, in which component B) has a COOH number (to DIN 53240) of from 0 to 600 mg KOH/g of polyester.
 6. The thermoplastic molding composition according to claims 1 to 5, in which component B) at least has an OH number or a COOH number greater than 0.
 - 30 7. The thermoplastic molding composition as claimed in claims 1 to 6, in which component B) is obtainable by reacting
 - 35 (a) one or more dicarboxylic acids or one or more derivatives of the same with one or more at least trihydric alcohols

or

 - (b) one or more tricarboxylic acids or higher polycarboxylic acids or one or more derivatives of the same with one or more diols

if appropriate in the presence of a solvent and optionally in the presence of an acidic inorganic, organometallic, or organic catalyst, or of an enzyme.

8. The thermoplastic molding composition as claimed in claims 1 to 7, in which component B) is obtainable according to claim 7, where, in variant (a), use is made of an at least trihydric alcohol which has hydroxyl groups having at least two different chemical reactivities.
9. The thermoplastic molding composition according to claims 1 to 7, in which component B) is obtainable according to claim 7, where, in variant (a), use is made of an at least trihydric alcohol which has hydroxy groups which all have identical chemical reactivity.
10. The thermoplastic molding composition according to claims 1 to 7, where variant (b) according to claim 7 uses an at least trihydric alcohol which has hydroxy groups all of which have identical chemical reactivity.
11. The thermoplastic molding composition according to claims 1 to 7, in which component B) is obtainable according to variant (b) according to claim 7, by using at least one tricarboxylic acid or polycarboxylic acid which has carboxy groups having at least two different reactivities.
12. The use of the thermoplastic molding compositions according to claims 1 to 11 for producing fibers, films, or moldings of any type.
13. A fiber, a film, or a molding of any type obtainable from the thermoplastic molding compositions according to claims 1 to 11.